/226 cont./

539 a few days old, they were already able to walk and knew how to make bows and arrows. Then they went hunting. They always brought home a great deal of tender meat for the old one.

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Fig. 5. The Indian village of Boróro, which stands between old and modern times. In the background, left, the old priest of magic with his adornment; the third man to the right of him is the subchief Ireneo, who is piously evangelical. Only in the case of the wife of the priest does one still see old adornment; otherwise all are in modern dress.

539 One time Cuarahy wanted to kill the wood hen, called jacú. But he shot three times and missed. And now the wood hen started to speak, for it is Guyrá Nheengatú, the speaking bird. It told the boy the story of his mother and advised him to kill the jaguars.

/230 cont./

776 dreadful abyss Anharepý. Cuarahý grew wild with rage and
539 killed the majority of the Anhá. The survivors yielded to him and became tame. -- With the help of the termites, who were still human beings, that is, "beginning of the termites," Cuarahý found the limbs and the crushed body of Yasý. He carried all the parts up out of the abyss and put the body together again. Then Yasý awoke to new life, and the brothers returned to heaven. -- The evil souls of the slain Anhá, however, wandered restlessly through the world until the most recent times. Now, however -- so say the Caiuás -- they have gone into an invention of the whites: into the radio.

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Fig. 9. Modern greeting of a guest, whereby the man of the house, with his wife, steps toward the guest and uses the Portuguese greeting. A remnant of the old tradition appears in the adorned cross and the gourd rattle, which he holds in his hand.

539 Nhande-Rú-Vussú opens the gates of heaven for the good
776 and just souls; the rest must remain outside and return to earth,
775 where they roam about until an Anhá overpowers them and takes them to Anharepý.

/29 cont./

854 855 163 [164] [536] In part the not very rational methods of raising the children are responsible for the high index of child mortality. On the occasion of journeys or celebrations, the children sleep in the open, exposed to the mist, becoming victims of grippe or pneumonia. During the dances, which extend from nightfall to the break of day, many mothers keep the infants riding on their hips, paying no attention to the violent shaking to which they expose them all night; only robust children withstand such practices. Thus cultural patterns are combined with the factors of natural selection.

515 The patterns of hygiene in force among the Guaraní are very rudimentary, which naturally promotes the spread of contagious diseases of all sorts. Ordinarily one does not see the slightest preoccupation with body cleanliness. A Mbüá from Xapecó told me [828] that "the Guaraní go about dirty, because they were really born to be poor." If there is a river close to the village, the young lads may once in a while take a bath, but solely for the purpose of cooling the body on a hot day or of having fun in the water. The Ñandéva of the coast say that, in the opinion of the "ancients," a morning bath would give "long life," a belief that, by the way, also exists in other native populations; they remember an old man who demanded that children take a bath in the river every morning, "in order to become strong," but they confess that the Guaraní of today "prefer to remain near the fire." -- The smell of sweat [147] and smoke that characterizes them has been erroneously taken for a "racial odor."

164 Health conditions are not good. In the coastal villages, for example, many suffer from malaria, venereal diseases, frequent [146] grippes, etc. The irregular diet and alcoholism reduce physical [733] resistance. The Kayová of Mato Grosso have been decimated by [751] tuberculosis, which readily spreads among them, not only because of the lack of cleanliness, but because of the custom of having many people eat at one time from the same dishes or cups, of preparing chicha (a beverage fermented with the aid of saliva) in large collective tubs, of not dispensing the chimarrão /a beverage made with maté/ and, above all, the tereré (a beverage of maté with cold water, taken by means of a suction tube), and, finally, by the nocturnal dances in the open air.

3:Watson E-4,5 (1943) 1952 SM4 Guarani SM4

doubtful. Apparently sleeping was not entirely restricted to the hammock among the Cayuá, however, as Rengger mentions children reclining on skins of animals.[81] There is some indication that hammocks were reserved for adults. Hammocks were hung all about the interior of the *tapúi*, in each family section, and could be unslung for extra space during the day.

Every aboriginal *tapúi* had its mortar, and probably most had several of these. Mortars were made of hard wood which had been burned and hacked until there was a depression in the end or in the side: both "vertical" and "horizontal" mortars may have been made, although the "vertical" was much more common.[82] Pestles were either simple, smoothed pieces of wood with rounded ends, or might be tapered in the middle to make a better grip and to lighten them. Sometimes the two pounding ends were different as well, one being regularly blunted while the other was flattened laterally, giving the pestle somewhat the appearance of a narrow, thick spatula.

Long troughs for *cāwī'* beer, cut out of logs in much the same manner as a dugout canoe, were usually to be found by each *tapúi*. Some of the present-day troughs are of great size—as much as thirty feet long and a yard or more wide inside—and it may be that formerly, when every house had its own trough (and without metal tools), they were never as large. The smaller troughs are still to be seen and are usually less than half the size of the largest observed.

Pottery vessels were used which were made by the Cayuá women themselves. The use of these vessels, however, may have been somewhat limited in that gourds could be used for many of the same purposes except direct cooking on the fire. The metal vessels of the European have practically replaced aboriginal pottery, although the use of the gourd still widely persists. Gourds were used to carry water, generally in this case being provided with a coarse net and carrying loop of vegetable fiber. Larger gourds (up to 2 feet in diameter) were used for storing *cāwī'*, tiny ones for keeping paint pigments and herbal remedies, and open half-gourds were used for drinking and eating dippers. The shell of the armadillo made a good container for corn and similar substances. Small gourds were sometimes ingeniously cut so that the top could be used as a close-fitting cover, held tight by cords passing through holes in both parts. Pyrographic decoration of gourds is suggested aboriginally.

Admirably woven, round, flat, sieves of hard, rattan-like material were used for straining *cāwī'* beer and in pounding corn, for separating out coarse grains which needed more grinding. Other basket work seems to have been limited to the woman's back basket, *mbunakū'* (or *adjaká*), worn across the

[81] Rengger, 1835, p. 117.

[82] It is possible, however, that the horizontal type of mortar is modern. It is now much used to crush the juice from sugar cane, an operation for which the upright type with smaller basin is ill suited. Sugar cane is, of course, post-contact.

3:Watson E-4,5 (1943) 1952 SM4 Guarani SM4

Face painting for women and children is indicated for the aboriginal Cayuá, with the use of both the red *urucú'* (*Bixa orellana*) and the dark *genipá* (*Genipa americana*) dyes. Judging from the present, only the women were expected to engage in smoking for pleasure, and the pipe was the common means by which tobacco was used by them. Some special use of tobacco as an intoxicant is likely for the shaman or *pa'yé*. Pipes were molded of clay or carved of hard wood, sometimes the root of the *araçá* bush (tentatively identified with the *guava* or *goiaba*).

The aboriginal Cayuá had mouth blown flutes of bamboo. Stamping tubes[45] made of a large section of *taquara* (bamboo), of which the node of the lower end was left unperforated, were used by the women in group ceremonials. When the end was thumped on the ground, the *takuapú*, as it is called, emitted a dull resonating sound. The gourd rattle or *mbarahá* was used by the men, and this instrument was important in connection with the religious and curing ceremonies. The *takuapú* and *mbarahá* were probably kept in a sort of rack like an umbrella stand in a special place when they were not in use.

The musical bow in one form or another appears old in the area, although it would perhaps be impossible now to say if the miniature bow is aboriginal. (Musical bows do not seem to be indigenous to the South American tropical forest.) This is held in the mouth and stroked by another tiny bow strung inside of the first.

SOCIAL ORGANIZATION

The basic social unit of the Cayuá was formerly the extended family, headed by an old man. Patrilocality is putatively indicated, though matrilocality was probably at least temporary. Marital locality was in any case tempered by the marriage of girls with the mother's brother. Descent seems to most investigators and to the present writer to have been patrilineal.[46]

The extended family was closely related to other aspects of Cayuá culture, notably to the kinship system, to economic organization, and to aboriginal architecture and the typical dwelling unit, the *tapúi*. The *tapúi*, a large structure, was the dwelling unit of the extended family. Here there was ample space for housing the several small families which comprised the larger unit. In fact, a structure of such a size and arrangement—a sort of "longhouse"—could not well have been adapted to any other size of group and organization of occupants. The small elementary families were distributed along the length of the dwelling, each stringing its hammocks, building its fire, and storing its equipment in its own section. Sections, however, were not parti-

[45] Cf. Izikowitz, 1935, pp. 151 ff.

[46] Cf. Wagley and Galvão, 1946. One of the co-authors of this article, Galvão, worked with the writer among the Cayuá. His conclusions, both privately expressed and those published in the above article, accord in many respects with those of the writer, as far as social organization of the Cayuá is concerned. Cf. also Watson, V. D., 1944.

5: Métraux E-4 (no date) 1948 SM4 Guarani SM4

501 [171] rivers. They propel these craft with poles. The *Cayuá* of Brazil, who reside near larger streams, are good boatmen and travel a great deal in large dugouts, 8 to 12 feet (2.5 to 3.5 m.) long.

489 [285] **Carrying devices.**—Goods are carried in cylindrical or rectangular twilled baskets, reinforced with a wooden frame. *Paĩ'* carrying baskets are relatively extensible and are made of intertwined pindo leaves, the midribs strengthening the whole structure. Carrying nets made of bark [177] strips were clearly introduced with the maté industry. The *Guaraní* skin [178] bag is certainly older than the net and appears to be an article that originated locally or was borrowed from tribes to the south.

482 854 Babies are ordinarily carried in a sling, straddling their mothers' hips, but they may be transported in baskets or in skin bags.

MANUFACTURES

285 [824] **Basketry.**—The *Guaraní* weave temporary baskets of the pinnae of pindo palms, the midrib serving to reinforce the rim. More permanent containers are made of twilled fabrics of tacuarembo strands. They are [531] ornamented with black, geometrical motifs.

283 [824] **Spinning and weaving.**—Thread is made of cotton carded with a bow, or of *Bromelia*, nettle (*Urera grandifolia*), and palm (*Acrocomia totai*) fibers.

286 [293] [531] [386] [824] [118] [177] Cotton is spun with a drop spindle and woven on a vertical loom with a circular warp. Cloth is generally white with alternate brown and black stripes, dyed with the bark of *Peltophorum dubium* and *Trichilia catigua*. The technique of darning weft strands through warp elements attached to a vertical loom, though it has been observed in modern times, was probably an early practice abandoned when true weaving became general, probably through *Arawak* influence.

323 178 **Pottery.**—*Guaraní* ceramics are known through archeological finds in São Paulo, Rio Grande do Sul, near Asunción in the Argentine territory of Misiones, and on the island of Martín García. The largest specimens are funeral urns, which also served as beer containers. Small dishes and bowls have a white interior slip which bears sigmoid figures, curves, triangles, mazes, and "grecques." The large jars and ordinary ware have continuous rows of thumbnail or other impressions over their entire surface. The *Caingué*, who have practically given up pottery, make only a ware that is decadent in quality and shape. Bowls with a flaring base ("compotera" types) may perhaps be a survival of a pre-Columbian type.

415 **Leather work.**—The *Caingué* carry their small possessions in skin bags.

411 824 **Weapons.**—*Caingué* bows are made of palm wood, guayaihwi (*Patagonula americana*), or ihvira payú, ihvira pepé (*Holocalyx balansae*). They are 6 to 8 feet (2 to 2.5 m.) long, circular or oval in cross section, and entirely or partially wrapped with guembé bark (*Philodendron* sp.)